NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: www.des.nh.gov/onestop

RSA/Rule: RSA 482-A/ Env-Wt 100-900

Administrative Use Only	Administrative Use Only	Administrative Use Only	Site No.:
			Check No.:
			Amount:
			Initials:

1. REVIEW TIME: Indicate your Review Time below. To determine review time, refer to Guidance Document A for instructions.

☐ Standard Review (Minimum, Minor or Major Impact) ☒ Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:

If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the Determine if Mitigation is Required Frequently Asked Question.

Mitigation Pre-Application Meeting Date: Month: __ Day: __ Year: ____

☒ N/A - Mitigation is not required

3. PROJECT LOCATION:

Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: NH-16A			TOWN/CITY: JACKSON
TAX MAP: N/A (HWY R.O.W.)	BLOCK:	LOT:	UNIT:
USGS TOPO MAP WATERBODY NAME: unnamed perennial ☒ NA		STREAM WATERSHED SIZE: 282 AC. ☐ NA	
LOCATION COORDINATES (If known): 44.1460 -71.1804 ☐ Latitude/Longitude ☐ UTM ☐ State Plane			

4. PROJECT DESCRIPTION:

Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

RESURFACE DETERIORATED INLET & OUTLET HEADWALLS TO AN EXISTING 78'L x 77"W x 48"H CONCRETE BOX CULVERT. REPLACE RAILS.

5. SHORELINE FRONTAGE:

☒ NA This does not have shoreline frontage. SHORELINE FRONTAGE:

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:

Please indicate if any of the following permit applications are required and, if required, the status of the application.

To determine if other Land Resources Management Permits are required, refer to the Land Resources Management Web Page.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED
Individual Sewerage Disposal per RSA 485-A:2	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED
Subdivision Approval Per RSA 485-A	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED
Shoreland Permit Per RSA 483-B	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED

7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB 16 - 0991

b. ☐ Designated River the project is in ¼ miles of: _____; and date a copy of the application was sent to the Local River Management Advisory Committee: Month: __ Day: __ Year: ____

☒ N/A

8. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: Beaulieu, Philip P.E District Engineer			
TRUST / COMPANY NAME: NHDOT District One	MAILING ADDRESS: 641 Main St.		
TOWN/CITY: Lancaster		STATE: NH	ZIP CODE: 03584
EMAIL or FAX: pbeaulieu@dot.state.nh.us	PHONE: 788-4641		

ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize NHDES to communicate all matters relative to this application electronically

9. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:	MAILING ADDRESS:		
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:		

ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically

10. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.:	COMPANY NAME:		
MAILING ADDRESS:			
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:		

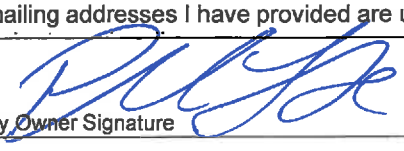
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically

11. PROPERTY OWNER SIGNATURE:

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not

Property Owner Signature	Print name legibly	Date
	Philip L. Beaulieu	10/20/2016

MUNICIPAL SIGNATURES

12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

⇨	Mark J. Ross-Parent	10/24/16
	Print name legibly	Date

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

⇨ Karen E. Burton	Karen E. Burton	Jackson	10/25/16
Town/City Clerk Signature	Print name legibly	Town/City	Date

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

14. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		☐ ATF		☐ ATF
Scrub-shrub wetland		☐ ATF		☐ ATF
Emergent wetland		☐ ATF		☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	14 / 2	☐ ATF	126 / 18	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	16 / 4	☐ ATF	144 / 36	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	30 / 6		270 / 54	

15. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☒ Minimum Impact Fee: Flat fee of $ 200

☐ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 300 sq. ft. X $0.20 = $ 60

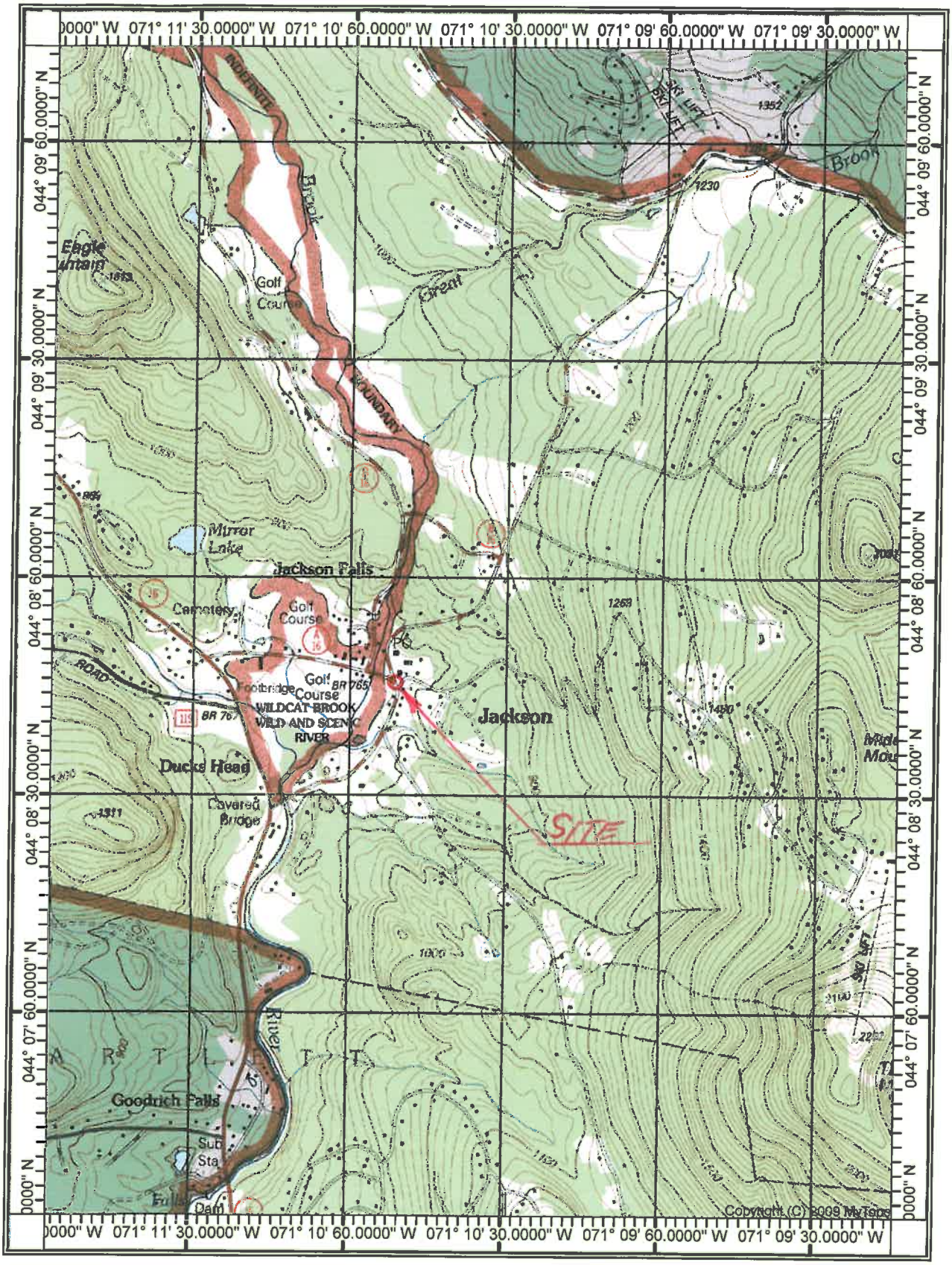
Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ _____

The Application Fee is the above calculated Total or $200, whichever is greater = $ 200.00



SCALE 1:24000

0 1000 2000 3000 4000 5000 6000

FEET

44.1460
71.1804

JACKSON
NH-16A
HEADWALL REPAIR
10/17/16
D. CROTEAU

My Map

NHDOT Tue Oct 18 2016 03:19:00 PM.

JACKSON
NH-16A
HEADWALL REPAIR
10/17/16

D. CROTEAU

WETLANDS PERMIT APPLICATION – ATTACHMENT A
MINOR AND MAJOR - 20 QUESTIONS

Water Division/ Wetlands Bureau/ Land Resources Management
Check the Status of your application: www.des.nh.gov/onestop

RSA/ Rule: RSA 482-A, Env-Wt 100-900

Env-Wt 302.04 Requirements for Application Evaluation - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:

1. The need for the proposed impact.

The proposed impacts are needed in order to repair the deteriorating headwalls of a concrete box culvert under NH-16A. This intersection is a primary roadway in town, therefore the denoted impacts are needed to maintain the exisiting roadway infrasturucture for safe public use. The majority of the impacts are temporary for construction. The accompanying plans identify the associated impacts to the wetlands for the project.

2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

The alternatives considered are as follows:

Replace sturucture with a new sturucture in compliance with the NH Stream Crossing Guidelines:

According to the NH Stream Crossing Guidelines, if a new strucutre were to be constructed at this location it would require a span of 12 feet. A strucutre of this size would cost approximately $1 million. Spending this much money on a strucutre that could be adequately preserved for less than approximately $100,000 would not be a practical use of resources. Due to the additional footprint for a fully compliant structure there would also be substantial increase in permanent wetland impacts.

Rehabilitate the exisiting strucutre:

This is the chosen alternative. The impacts for resurfacing the headwalls are minimal in comparison to a compliant structure replacement. This is also the most cost-effective and lowest impact solution for the project.

3. The type and classification of the wetlands involved.

R3UB1; Riverine, Upper Perennial, Unconsolidated Bottom, Cobble-Gravel Bank

4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.

This unnamed perennial flows into Ellis River and is part of the Saco River Watershed.

5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.

The unnamed perennial has not been identified as a rare surface water however the project is within a one mile buffer of and imparied water.

6. The surface area of the wetlands that will be impacted.

R3UB1 - Perrenial Channel - 14 SF Permanent / 126 SF Temp.

Bank 16 SF Permanent / 144 Temp.

7. The impact on plants, fish and wildlife including, but not limited to:
   a. Rare, special concern species;
   b. State and federally listed threatened and endangered species;
   c. Species at the extremities of their ranges;
   d. Migratory fish and wildlife;
   e. Exemplary natural communities identified by the DRED-NHB; and
   f. Vernal pools.

a. No rare or special concern species were identified wihtin the proposed project area.

b. There were no State or Federally listed threatened or endangered species identified within the project limits by NHB. The USFWS IPaC identified the Canada Lynx and Northern long-eared Bat as threatened species. A 4(d) consultation form has been filled out and sent to the Army Corp. of Engineers to submit to USFWS. As for Canada Lynx, the proposed project will not result in any loss of suitable habitat and there for there will be no effect on that species.

c. There are no species known to be at the extremities of their ranges located in the project area.

d. Migratory fish and wildlife will be protected under the direction of NH Fish and Game.

e. The Department has coordinated with DRED and the results of the NHB review revealed no records in this area.

f. There were no vernal pools identified and/or delineated in the project area.

8. The impact of the proposed project on public commerce, navigation and recreation.

There will be none to minimal impacts to public commerce, navigation, and recreation in and around the project area. The road will remain open during construction allowing people to access any establishments along this route.

9. The extent to which a project interferes with the aesthetic interests of the general public. For example, where an applicant proposes the construction of a retaining wall on the bank of a lake, the applicant shall be required to indicate the type of material to be used and the effect of the construction of the wall on the view of other users of the lake.

The proposed work will not interfere with the aesthetic interests of the general public, the rehabilitation will make the sturucture more appealing to the eye.

10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.

The project will not interfere with or obstruct public right of passage or access. There will be regular two lane traffice for the majority of the project, and for a short period of time it will be reduced down to one lane of traffic.

11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.

The project is expected to have a positive impact on abutting properites. The rehabilitated structure will better serve the abutting properties if they travel on the road.

The project as proposed will not alter the chance of flooding on abutting properties.

12. The benefit of a project to the health, safety, and well being of the general public.

The project will provide a safer, longer lasting sturcture, and roadway. If the sturcutre was left they way it is, it would eventually close and be unpassable.

13. The impact of a proposed project on quantity or quality of surface and ground water. For example, where an applicant proposes to fill wetlands the applicant shall be required to document the impact of the proposed fill on the amount of drainage entering the site versus the amount of drainage exiting the site and the difference in the quality of water entering and exiting the site.

The proposed project which consists of refacing the inlet and outlet headwalls will not have any long term effects on the water quality in this area. Throughout construction BMP's will be implemented to ensure water quality is maintained throughout construction. No additional drainage is being introduced to this area, as such there will not be an increase to the quantity of water at this location either.

14. The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.

The project will not increase flooding, erosion, or sedimentation. The new strucutre will pass the 100-year storm and the cause or potential for an increase in erosion will not be changed as a result of this project. Nothing that will be a barrier to sediment transport will be installed in this project.

15. The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.

Surface waters will not be reflected or redirected as a result of this project. The unnamed river doesn't have enough surface water for wave energy to be an issue.

16. The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted.

The work consists of resurfacing headwalls of a culvert. There are no similar strucutures in the vicinity owned by other parties that would require repair.

17. The impact of the proposed project on the values and functions of the total wetland or wetland complex.

The value of the wetland and stream as a habitat for living organisms will be unchanged.

18. The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.

No such landmarks were identified in this project area.

19. The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.

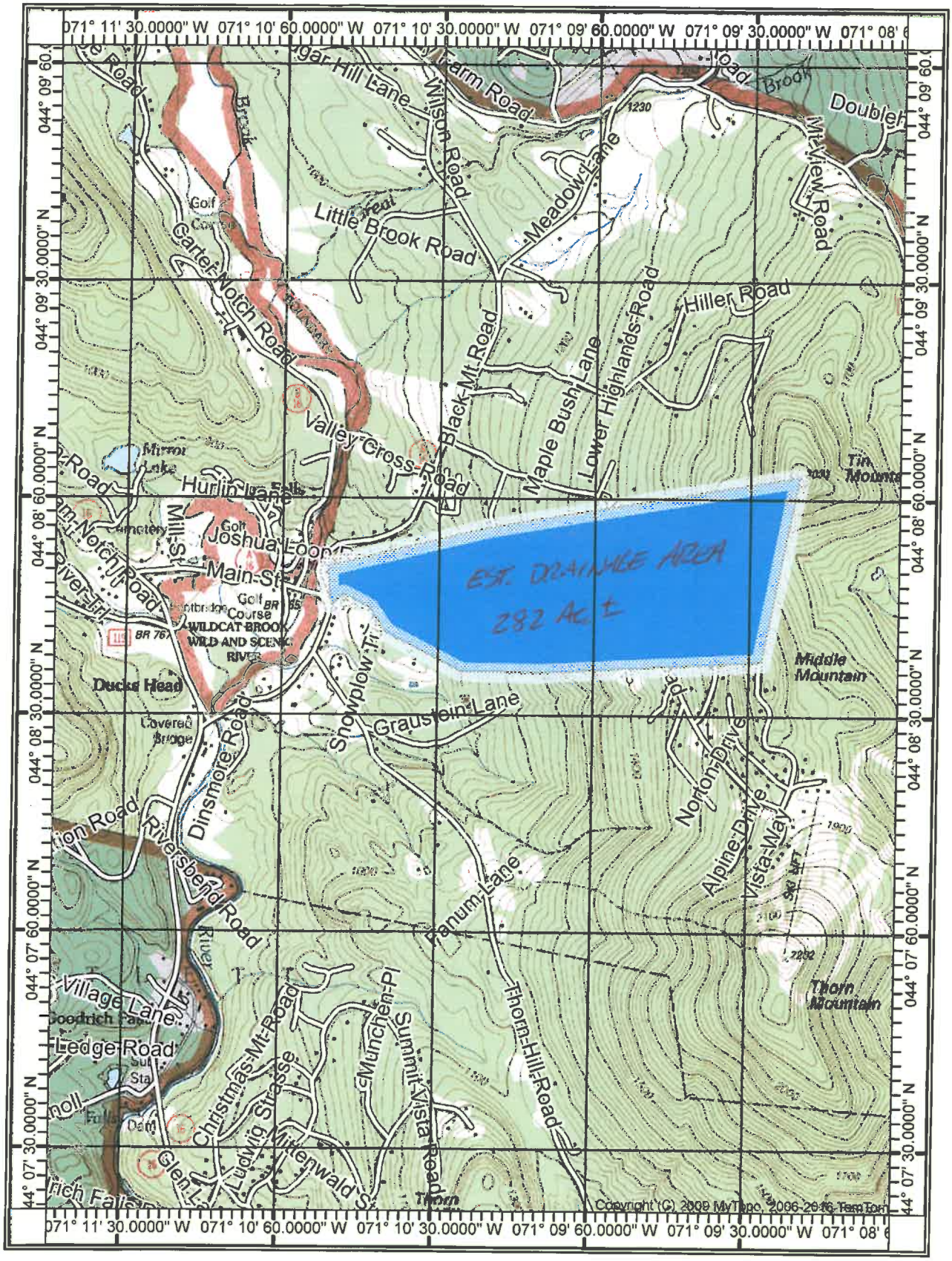
There are no areas named in acts of congress or presidential proclamation as national rivers, national wildness areas, or national lakeshores that will be impacted as a result of this project.

20. The degree to which a project redirects water from one watershed to another.

The project as proposed will not redirect water from one watershed to another.

Map Information

CD Name:	New Hampshire (NH)
Map Name:	JACKSON
USGS Ref Code:	44071-B2-TF-024
Map Edition:	Standard
Map Scale:	1:24,000
Map Type:	Topographic (Feet)
Map Projection:	Transverse Mercator
Vertical Datum:	National Geodetic Vertical Datum 1929
Horizontal Datum:	North American 1927
Contour Interval:	20 feet
Created/Printed:	1995
Revised/Inspected:	None
Name:	Polygon 8
Area:	12309438 square feet
	282.58 acres
	0.44 square miles
Perimeter:	3.10 miles
Parts:	1
Locked:	No
Notes:	



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0 1000 2000 3000 4000 5000 6000

FEET

NH Department of Transportation
District 1

Env-Wt 904.06 Repair or Rehabilitation of Tier 1 or Tier 2 Existing Legal Crossings

- **In order to qualify under this section, the crossing cannot have a history of causing or contributing to flooding that damages the crossing or other infrastructure. Does the crossing have a history of flooding?** The crossing does not have a history of causing or contributing to flooding that damages the crossing or other infrastructure.

- **Repair or rehabilitation pursuant to this section may be accomplished by concrete repair, slip lining, cured-in-place lining, or concrete invert lining. Please describe how this applies to the subject project.** The proposed improvements are to the headwalls on the outlet and inlet ends of a 78"x77"x48" box culvert under NH 16A. There is spalling on both headwalls; therefore the plan is to rehabilitate the concrete structures.

If the above criteria do not apply to this project, the crossing does not qualify under this section and must be designed according to 904.02 (Tier 1 crossings) or 904.05 (Tier 2 crossings).

If the above criteria apply to this project, please provide the following information.

The project may qualify as a <u>minimum</u> impact project if:

The crossing does not diminish the hydraulic capacity of the crossing. The proposed work will not diminish the hydraulic capacity of the crossing

The crossing does not diminish the capacity of the crossing to accommodate aquatic life passage. The proposed work will not diminish the capacity of the crossing to accommodate aquatic life passage. The Department will be maintaining the diameter of the existing pipe. The proposed work is only to the headwalls of the structure which will establish a more stable feature.

The crossing meets the general design criteria specified in Env-Wt 904.01, as follows:

Env-Wt 904.01

(a) Not be a barrier to sediment transport;
The work proposed will not create any barriers to sediment transport.

(b) Prevent the restriction of high flows and maintain existing low flows;
The crossing will not create any restrictions of high flows and will maintain existing low flows. The Department will be maintaining the diameter of the existing pipe.

(c) Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction;
The rehabilitated structure will not obstruct or substantially disrupt the movement of aquatic life indigenous to the water body beyond the actual duration of construction.

(d) Not cause an increase in the frequency of flooding or overtopping of banks;
The proposed project will not increase the frequency of flooding or overtopping of banks. The Department will be maintaining the diameter of the existing pipe, which passes the 100-year flood.

(e) Preserve watercourse connectivity where it currently exists;
The proposed project will not affect the watercourse connectivity that currently exists since the Department is not changing the diameter of the existing pipe.

(f) Restore watercourse connectivity where: (1) Connectivity previously was disrupted as a result of human activity(ies); and (2) Restoration of connectivity will benefit aquatic life upstream or downstream of the crossing, or both;

The proposed project will ensure continued watercourse connectivity where it would otherwise be potentially disrupted if the existing structure/ headwalls failed and eroded into the stream channel. During construction, water will be diverted into a smaller pipe, therefore allowing the watercourse to remain connected even throughout construction. The extension will allow aquatic life upstream or downstream of the crossing to continue to pass through the project area, if they do so currently.

(g) Not cause erosion, aggradation, or scouring upstream or downstream of the crossing; and
The proposed project will not cause erosion, aggradation, or scouring upstream or downstream, as the current structure doesn't cause any of these factors to occur and the Department is not changing the hydraulic capacity through this pipe.

(h) Not cause water quality degradation.
The project will not cause water quality degradation. The crossing will continue to function as it does currently. All necessary BMP will be used during construction and surrounding features will not be changed due to this project; therefore, the water quality should not change post construction.

If the project does not qualify as a minimum impact project due to reasons stated above, it may qualify as a minor impact project if:

The crossing does not adversely impact the stability of the stream banks or stream bed upstream or downstream of the crossing. The repair to the culvert's headwalls will not adversely impact the stability of the stream banks or stream bed upstream or downstream.

The crossing does not cause an increase in the frequency of flooding or overtopping of banks. The repair to the culvert's headwalls will not cause an increase in the frequency of flooding or overtopping of banks because the Department will not be changing the size of the structure and the current structure does not have a history of flooding or overtopping the banks.

If the project does not meet the above criteria for minimum OR minor, the crossing does not qualify under this section and must be designed according to 904.02 (Tier 1 crossings) or 904.05 (Tier 2 crossings).

New Hampshire Natural Heritage Bureau

To: Dennis Croteau
641 Main Street
Lancaster, NH 03584

Date: 4/4/2016

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 4/4/2016

VALID ONLY FOR NOTIFICTION OR MINIMUM EXPEDITED APPLICATIONS SUBMITTED TO THE NHDES WETLANDS BUREAU

NHB File ID: NHB16-0991

Applicant: Dennis Croteau

Location: Tax Map(s)/Lot(s):
Jackson

Project Description: concrete headwall replacement

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

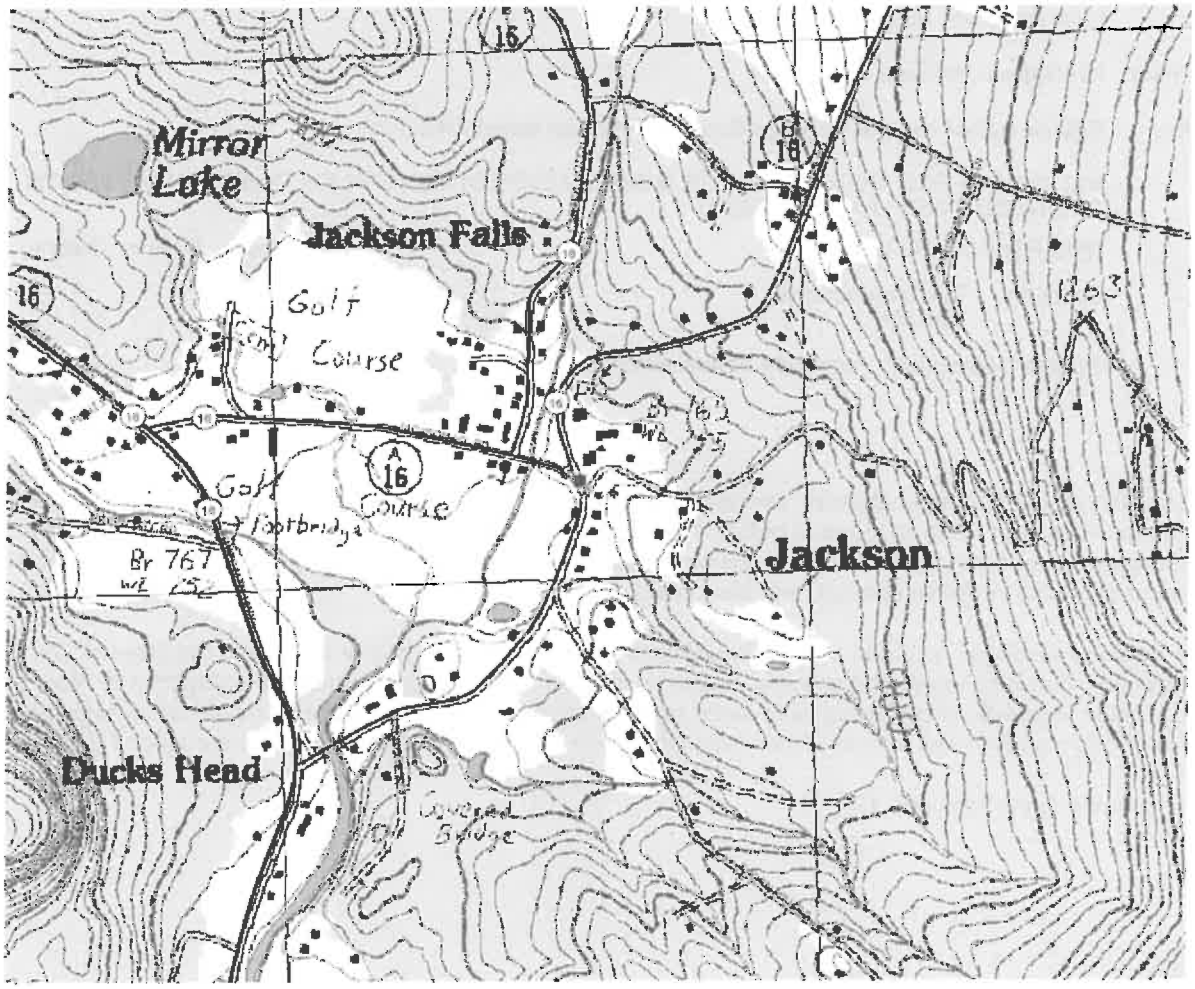
A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 4/3/2017.

Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
172 Pembroke Road
Concord NH 03301

MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB16-0991



Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
172 Pembroke Road
Concord NH 03301

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2017-SLI-0355
Event Code: 05E1NE00-2017-E-00419
Project Name: Jackson NH-16A Headwall Rehabilitation

November 23, 2016

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Jackson NH-16A Headwall Rehabilitation

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Code: 05E1NE00-2017-SLI-0355
Event Code: 05E1NE00-2017-E-00419

Project Type: TRANSPORTATION

Project Name: Jackson NH-16A Headwall Rehabilitation
Project Description: Reface inlet and outlet headwalls to an existing concrete box culvert

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-71.18092954158783 44.14593319528621, -71.18024289608002 44.14620457282192, -71.18006855249405 44.146017880608575, -71.180779337883 44.14570223469865, -71.18092954158783 44.14593319528621)))

Project Counties: Carroll, NH

United States Department of Interior
Fish and Wildlife Service

Project name: Jackson NH-16A Headwall Rehabilitation

Endangered Species Act Species List

There are a total of 2 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Canada Lynx *(Lynx canadensis)* Population: Contiguous U.S. DPS	Threatened	Final designated	
Northern long-eared Bat *(Myotis septentrionalis)* Population: Wherever found	Threatened		

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Project Jackson NH-16A

Wetland Application – NHDOT Cultural Resources Review

For the purpose of compliance with regulations of the National Historic Preservation Act, the Advisory Council on Historic Preservation's *Procedures for the Protection of Historic Properties* (36 CFR 800), the US Army Corps of Engineers' *Appendix C*, and/or state regulation RSA 227-C:9, *Directive for Cooperation in the Protection of Historic Resources*, the NHDOT Cultural Resources Program has reviewed the enclosed Standard Dredge and Fill Application for potential impacts to historic properties.

Project Description: NH 16A, over unnamed perennial. Resurface deteriorated inlet & Outlet headwalls to an existing 78" long X 77" wide X 48" high concrete box culvert. Install replacement guard rail supports along top of headwall. Construct temporary sandbag cofferdam with diversion pipe, on inlet and outlet. Reconstruct slopes within work zone.

Above Ground Review

Known/approximate age of structure:

Dennis Croteau, NHDOT Engineering Technician, indicates there are no construction plans on file, but there is a ROW plan for this Jackson village project dating to 1939. Nothing on file after that date, although some alterations to the box, particularly the guard rail addition, perhaps date to the 1960's.

☒ No Potential to Cause Effect/No Concerns As long as the rail will ~~remain~~ retain the same look/feel as current, because of location within National Registed Listed district.

☐ Concerns:

Below Ground Review

Recorded Archaeological site: ☐Yes ☒No

Nearest Recorded Archaeological Site Name & Number:
☐Pre-Contact ☒Post-Contact 27-CA-0040 (no name associated)

Distance from Project Area:
3.62 miles (5.8 km) southeast of project area

☒ No Potential to Cause Effect/No Concerns
Work zones have had previous impacts from installation of headwalls and concrete box culvert.

☐ Concerns:

Reviewed by:

Sheila Charles

NHDOT Cultural Resources Staff

11/14/2016
Date:

US Army Corps of Engineers
New England District

U.S. Army Corps of Engineers
New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5 regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	x	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	x	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org, specifically the book Natural Community Systems of New Hampshire.		x
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	x	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		
2.5 The overall project site is more than 40 acres.		x
2.6 What is the size of the existing impervious surface area?	N/A	
2.7 What is the size of the proposed impervious surface area?	N/A	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	N/A	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)	x	
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		x
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		x
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		x
3.5 Are stream crossings designed in accordance with the PGP, GC 21?	x	

4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		x
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		N/A
5. Historic/Archaeological Resources		
If a minor or major impact project, has a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) been sent to the NH Division of Historical Resources as required on Page 5 of the PGP?**		N/A

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

INLET AREA

OUTLET AREA

JACKSON
NH-16A
HEADWALL REPAIR
5/3/16
D. CROTEAU

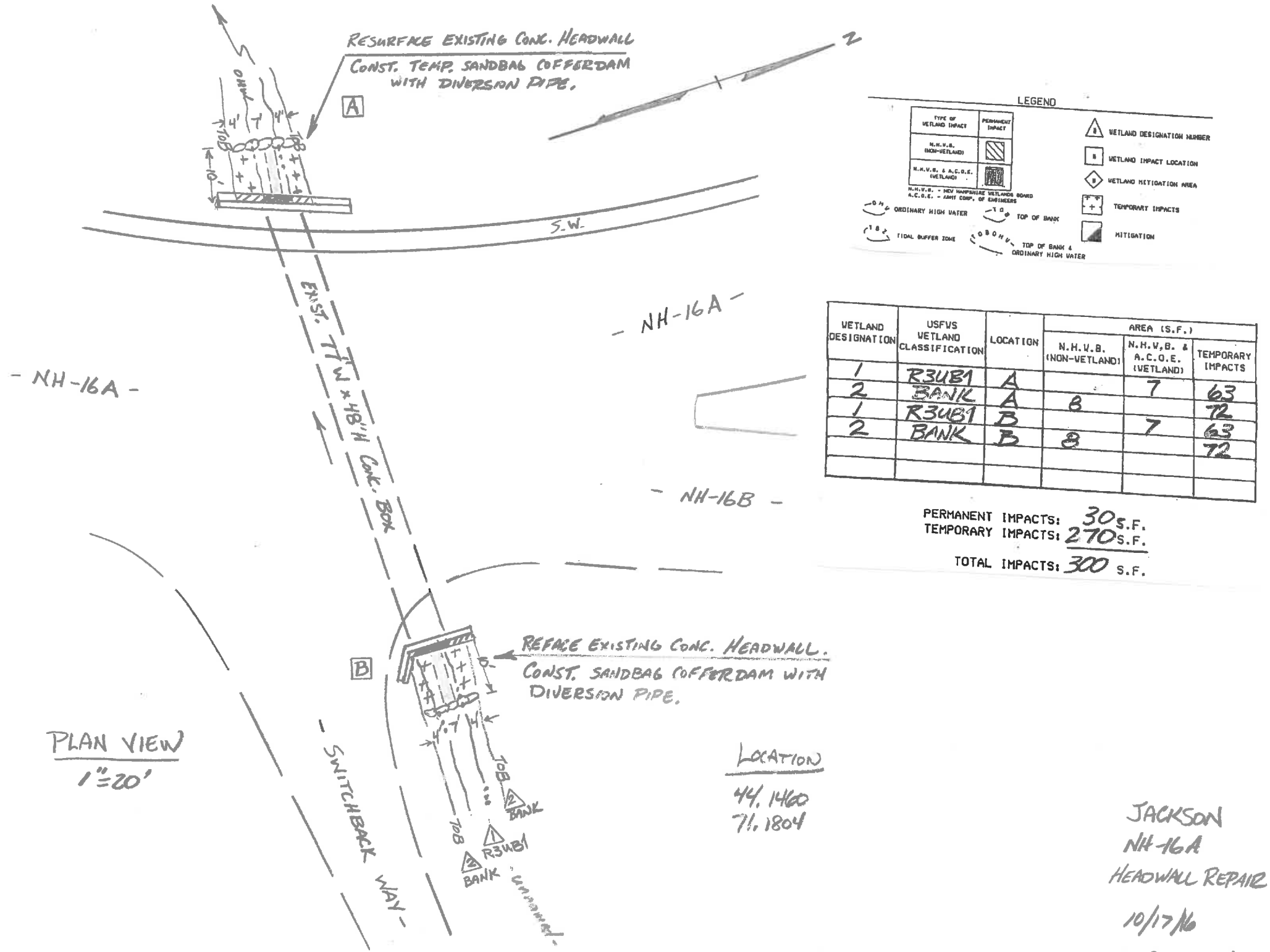
New Hampshire Department of Transportation

Jackson NH-16A

Headwall Repair

Construction Sequence

1. Work to be accomplished during dry period (minimal flow within perennial channel).
2. Install BMPs: Construct a temporary work zone using a temporary sandbag dam cofferdam with temporary diversion pipe 10 feet beyond culvert inlet headwall.
3. To the greatest extent possible equipment shall be located outside wetland jurisdiction and at no time shall equipment be staged in the water.
4. Discharge from dewatering of work areas shall be to sediment basins that are located in uplands with a minimum of 20 feet of vegetated buffer.
5. Reface headwall and install replacement guard rail supports along top of headwall.
6. Reconstruct slopes within temporary work zone. Within three days of final grading, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by matting slopes.
7. Minimize disturbance to existing vegetation.
8. Repeat BMPs and reconstruction for headwall at outlet area.
9. Caution should be used to avoid importing materials that may contain knotweed or other invasive or noxious weeds.
10. *Erosion Control Inspection Reports For Routine Roadway Maintenance Activities* should be utilized following rainfall events during project construction, and the project should continue to be periodically monitored after completion until disturbed areas have stabilized.



PLAN VIEW
1"=20'

LEGEND

TYPE OF WETLAND IMPACT	PERMANENT IMPACT
N.H.W.B. (NON-WETLAND)	
N.H.W.B. & A.C.O.E. (WETLAND)	

N.H.W.B. - NEW HAMPSHIRE WETLANDS BOARD
A.C.O.E. - ARMY CORP. OF ENGINEERS

- WETLAND DESIGNATION NUMBER
- WETLAND IMPACT LOCATION
- WETLAND MITIGATION AREA
- TEMPORARY IMPACTS
- MITIGATION
- OHW — ORDINARY HIGH WATER
- TOB — TOP OF BANK
- TBZ — TIDAL BUFFER ZONE
- TOB OHW — TOP OF BANK & ORDINARY HIGH WATER

WETLAND DESIGNATION	USFWS WETLAND CLASSIFICATION	LOCATION	AREA (S.F.)		
			N.H.W.B. (NON-WETLAND)	N.H.W.B. & A.C.O.E. (WETLAND)	TEMPORARY IMPACTS
1	R3UB1	A		7	63
2	BANK	A	8		72
1	R3UB1	B		7	63
2	BANK	B	8		72

PERMANENT IMPACTS: 30 S.F.
TEMPORARY IMPACTS: 270 S.F.
TOTAL IMPACTS: 300 S.F.

LOCATION
44.1460
71.1804

JACKSON
NH-16A
HEADWALL REPAIR
10/17/16
D. CROTEAU